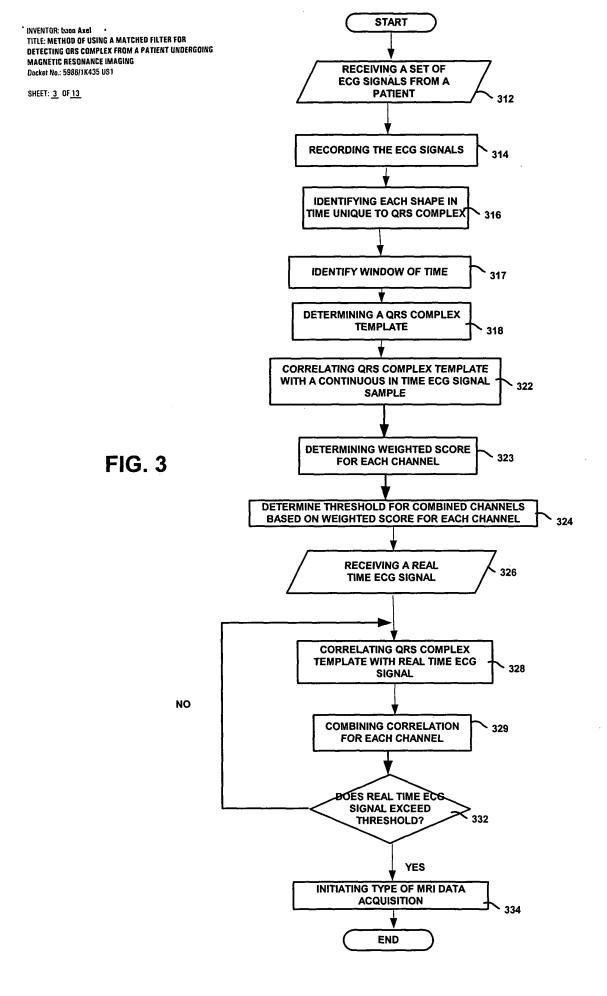


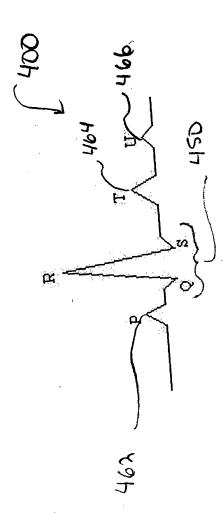
INVENTOR: Leon Axel TITLE: METHOD OF USING A MATCHED FILTER FOR START DETECTING ORS COMPLEX FROM A PATIENT UNDERGOING MAGNETIC RESONANCE IMAGING Docket No.: 5986/1K435 US1 **RECEIVING AN ECG** SHEET: 2 OF 13 SIGNAL FROM A **PATIENT RECORDING THE ECG SIGNAL** IDENTIFYING EACH SHAPE IN TIME UNIQUE TO QRS COMPLEX 216 **DETERMINING A QRS COMPLEX TEMPLATE** 218 **CORRELATING QRS COMPLEX TEMPLATE** WITH A CONTINUOUS IN TIME ECG SIGNAL 222 SAMPLE FIG. 2 **DETERMINE** THRESHOLD 224 **RECEIVING A REAL** 226 TIME ECG SIGNAL **CORRELATING QRS COMPLEX** TEMPLATE WITH REAL TIME ECG 228 SIGNAL NO DOES REAL TIME ECS SIGNAL EXCEED <₂₃₂ THRESHOLD? YES INTIATE TYPE OF MRI DATA AQUISITION **234** END



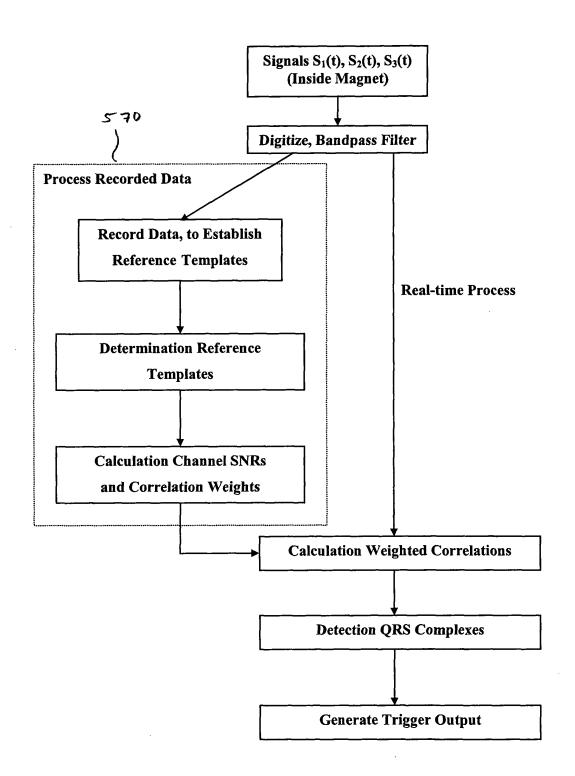
INVENTOR: Lean Axel
TITLE: METHOD OF USING A MATCHED FILTER FOR
DETECTING ORS COMPLEX FROM A PATIENT UNDERGOING
MAGNETIC RESONANCE IMAGING
Docket No.: 5986/1K435 US1

SHEET: 4 OF 13

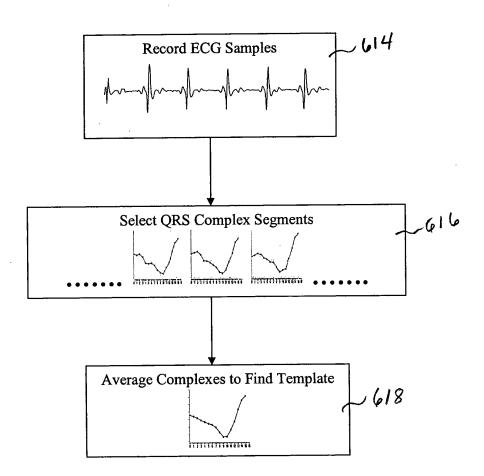
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SHEET: 5 OF 13

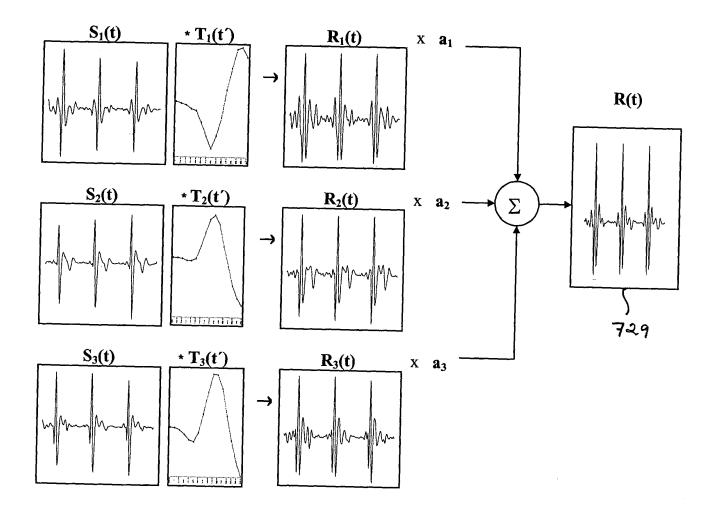


SHEET: 6 OF 13



INVENTOR: Leon Axel TITLE: METHOD OF USING A MATCHED FILTER FOR DETECTING ORS COMPLEX FROM A PATIENT UNDERGOING MAGNETIC RESONANCE IMAGING Docket No.: 5986/1K435 US1

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SHEET: 8 OF 13

Figure 8A

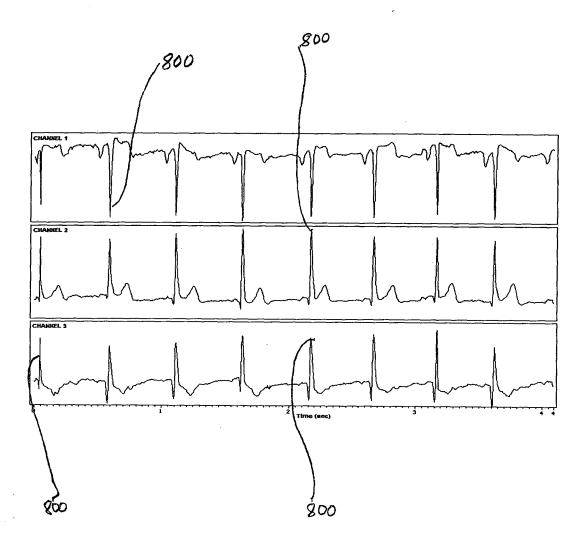
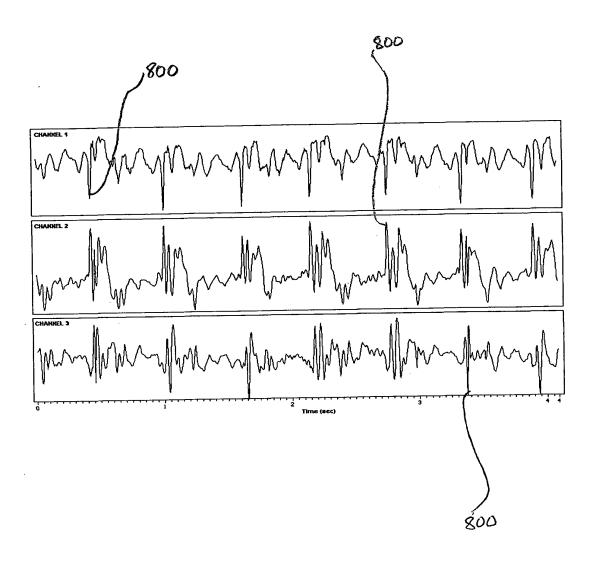
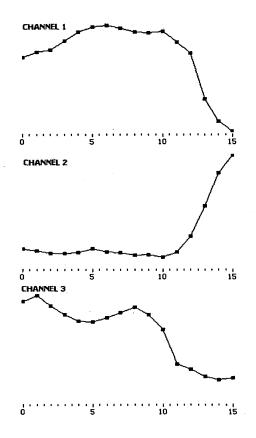


Figure 8B

SHEET: 9 DF 13

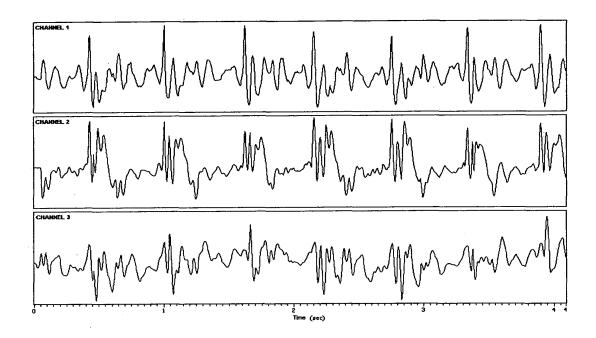


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INVENTOR: Leon Axel
TITLE: METHOD OF USING A MATCHED FILTER FOR
DETECTING ORS COMPLEX FROM A PATIENT UNDERGOING
MAGNETIC RESONANCE IMAGING
Docket No.: 5986/1K435 US1

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INVENTOR: Leon Axel
TITLE: METHOD OF USING A MATCHED FILTER FOR
DETECTING ORS COMPLEX FROM A PATIENT UNDERGOING
MAGNETIC RESONANCE IMAGING
Docket No.: 5986/1K435 US1

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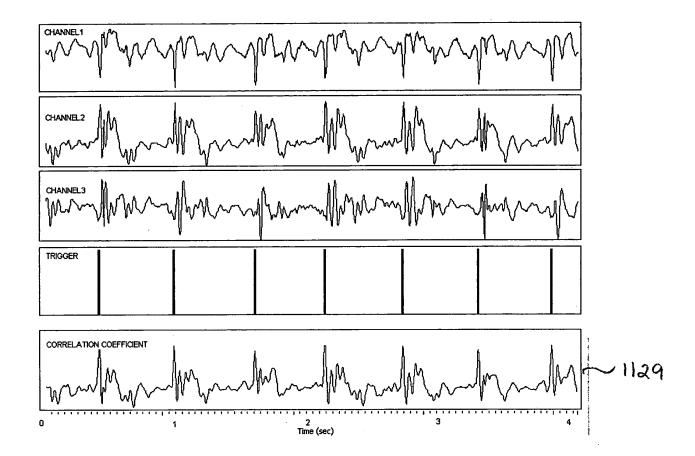


Figure 12

SHEET: 13 OF 13

